



- 5  $R^3$  is hydrogen or a straight-chain or branched alkyl radical (with or without asymmetric carbon atoms) having 1 to 16 carbon atoms.

Preference is given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 10 1 to 15 compounds of the formula (I)  
1 to 15 compounds of the formula (II)  
1 to 7 compounds of the formula (III).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 15 1 to 15 compounds of the formula (I)  
1 to 15 compounds of the formula (II)  
1 to 7 compounds of the formula (III)  
1 to 7 compounds of the formula (IV).

- 20 Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 1 to 15 compounds of the formula (I)  
1 to 15 compounds of the formula (II)  
1 to 7 compounds of the formula (III)  
25 1 to 7 compounds of the formula (IV)  
1 to 7 compounds of the formula (V).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 30 1 to 15 compounds of the formula (I)  
1 to 15 compounds of the formula (II)  
1 to 7 compounds of the formula (III)

1 to 7 compounds of the formula (IV)

1 to 7 compounds of the formula (V)

1 to 7 compounds of the formula (VI).

5 Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

1 to 15 compounds of the formula (I)

1 to 15 compounds of the formula (II)

1 to 7 compounds of the formula (III)

10 1 to 7 compounds of the formula (IV)

1 to 7 compounds of the formula (VI)

1 to 7 compounds of the formula (VII).

15 Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

1 to 15 compounds of the formula (I)

1 to 15 compounds of the formula (II)

1 to 7 compounds of the formula (III)

1 to 7 compounds of the formula (IV)

20 1 to 7 compounds of the formula (VI).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

1 to 15 compounds of the formula (I)

25 1 to 15 compounds of the formula (II)

1 to 7 compounds of the formula (III)

1 to 7 compounds of the formula (IV)

1 to 7 compounds of the formula (VI)

1 to 7 compounds of the formula (XII).

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Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

1 to 15 compounds of the formula (I)

1 to 15 compounds of the formula (II)

35 1 to 7 compounds of the formula (III)

1 to 7 compounds of the formula (IV)

1 to 7 compounds of the formula (V)

1 to 7 compounds of the formula (VI)

1 to 7 compounds of the formula (VII).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 1 to 15 compounds of the formula (I)
- 5 1 to 15 compounds of the formula (II)
- 1 to 7 compounds of the formula (IV).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 10 1 to 15 compounds of the formula (I)
- 1 to 15 compounds of the formula (II)
- 1 to 7 compounds of the formula (IV)
- 1 to 7 compounds of the formula (VI).

15 Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 1 to 15 compounds of the formula (I)
- 1 to 15 compounds of the formula (II)
- 1 to 7 compounds of the formula (IV)
- 20 1 to 7 compounds of the formula (XII).

Preference is furthermore given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 1 to 15 compounds of the formula (I)
- 25 1 to 15 compounds of the formula (II)
- 1 to 7 compounds of the formula (IV)
- 1 to 7 compounds of the formula (IX).

Particular preference is given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 30 1 to 12 compounds of the formula (I)
- 2 to 12 compounds of the formula (II)
- 1 to 5 compounds of the formula (III).

35 Particular preference is given to liquid-crystal mixtures of the invention which comprise 3 to 25 components, including

- 1 to 12 compounds of the formula (I)
- 2 to 12 compounds of the formula (II)
- 1 to 5 compounds of the formula (III)